

Notice of Allowability

Application No.

10/602,572

Examiner

Manglesh M. Patel

Applicant(s)

TUNNING, BRIAN R.

Art Unit

2178

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to (RCE) September 1, 2006.
2. ☒ The allowed claim(s) is/are 1,9,13,17,21 and 28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Farrell on September 15, 2006.

EXAMINER'S PROPOSED AMENDMENT

Claims

Please Replace All Claims With the Following:

1. A computer-executable method of editing a web page document and a remote content used by the web page document during a runtime of the associated web page using a system of mark-up language tags instead of using separate documents including one or more of a web page document, a style sheet document, and a web page template document, comprising:

- a set of markup indicator tags for a web page template, wherein each tag in the set is bound to an associated element behavior;
- a context object to coordinate the element behaviors of the tags;
- deploying an editor generated by an edit tag within the running web page document;
- locating the remote content referenced by a tag of the web page document, via an element behavior of the tag, wherein the remote content resides in a database remote from the web page document;
- converting the remote content via the element behavior into a markup language used in the web page document, wherein the remote content is of a compliant format or of a non-compliant format with the format of the markup language;
- processing a preview tag that precedes declaration of a web page template in the web page document, the web page template containing at least one of the tags of the system of tags, wherein the preview tag has associated logic for showing edits of the remote content as executing mark-up language in a web page corresponding to the web page template and rendered tags;

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presenting editing controls for editing the converted content in the web page template, wherein the editing displays dynamic updates of the one or more edits in real-time in the web page generated by the preview tag displaying the web page template;

replacing the tag with the converted content in response to rendering the web page document;

updating the tag in response to using the editor to change the remote content, by automatically converting the edited remote content via the element behavior into the markup language; and

wherein when multiple tags link an executing web page to one or more content resources, content changes are propagated throughout the one or more content resources and linked panes of the web page.

2-8. (Canceled)

9. A computer-executable method to assist authoring a web page document, the method using a system of mark-up language tags instead of separate web page, style sheet, and template documents, comprising:

a set of markup indicator tags for a web page template, wherein each tag in the set is bound to an associated element behavior;

a context object to coordinate the element behaviors of the tags;

wherein when multiple tags link an executing web page to one or more content resources, content changes are propagated throughout the one or more content resources and linked panes of the web page;

executing a layout tag comprising an element behavior that indicates a style format for application to a presentation of a data content; and

executing a resource tag comprising an element behavior having logic for use in: locating the data content in a remote resource, converting the data content to a markup language used in the web page template, substituting the converted content for the resource tag in the web page template, and updating the converted content in the web page template in response to a change in the data content in the remote resource;

executing a preview tag comprising an element behavior having logic to display dynamic updates of the converted content in real-time in a web page generated by the web page template;

executing an edit tag comprising an element behavior to present editing controls for editing the converted content in the web page template, wherein the editing is displayed in real-time in the web page generated by the web page template.

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10-12. (Canceled)

13. A computer-executable method to assist authoring a web page document, the method using a system of mark-up language tags instead of separate web page, style sheet, and template documents including executing a preview tag comprising an element behavior for a web page template, comprising:

- a set of markup indicator tags for a web page template, wherein each tag in the set is bound to an associated element behavior;

- a context object to coordinate the element behaviors of the tags;

- reading a reference in the preview tag to at least part of the web page template to display as a currently executing web page;

- displaying editing controls defined by the element behavior of the preview tag; and

- executing logic to: dynamically update the currently executing web page to display changes in content, style, and layout in the part of the web page template referred to by the reference when the web page template is edited by the editing controls;

- wherein the part of the web page template being referenced includes multiple tags and when multiple tags link an executing web page to one or more content resources, content changes are propagated throughout the one or more content resources and linked panes of the web page;

- wherein the change in content of the dynamically updated web page is displayed based on a corresponding change in content in a remote content resource accessed by a tag in the web page template.

14-16. (Canceled)

17. A content template system in a computer-readable media to assist authoring a web page document, the system including a collection of mark-up language tags to replace using separate web page, style sheet, and template documents, comprising:

- a set of markup indicator tags for a web page template, wherein each tag in the set is bound to an associated element behavior;

- a context object to coordinate the element behaviors of the tags;

- wherein the tags link an executing web page to one or more content resources, such that content changes are propagated throughout the one or more content resources and linked panes of the web page;

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wherein a tag of the collection is bound to an element behavior programmed to locate remote content referenced by an attribute of the tag, convert the remote content into a markup language used in the web page template, replace the tag with the converted content, and dynamically update the converted content in the web page template when the remote content changes;

wherein a tag of the collection is bound to an element behavior programmed to display dynamic updates of the converted content in real-time in a web page generated by the web page template;

wherein a tag of the collection is bound to an element behavior programmed to present editing controls for editing the converted content in the web page template and for displaying the editing in real-time in the web page generated by the web page template.

18-20. (Canceled)

21. The content template system as recited in claim 17, further comprising a browser, wherein the browser renders the web page template and renders the tags bound to the element behaviors.

22-27 (Canceled)

28. One or more computer readable media containing instructions that are executable by a computer to perform actions for using a system of tags to replace using separate documents in authoring a web page, comprising:
a set of markup indicator tags for a web page template, wherein each tag in the set is bound to an associated element behavior;

a context object to coordinate the element behaviors of the tags;

wherein the tags link an executing web page to one or more content resources, such that content changes are propagated throughout the one or more content resources and linked panes of the web page;

locating content referenced by a markup tag comprising an element behavior in a web page template;

converting an original version of the content into a markup language version using the same markup language being used in the web page template;

replacing the markup tag with the markup language version of the content; and

dynamically updating the markup language version of the content in the web page template when the original version of the content changes;

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wherein the tags link an executing web page to one or more content resources, such that content changes are propagated throughout the one or more content resources and linked panes of the web page

displaying dynamic updates of the markup language version of the content in real-time in a web page generated from the web page template;

presenting editing controls for editing the markup language version of the content in the web page template, wherein the editing is displayed in real-time in the web page generated by the web page template;

wherein edits to the markup language version are propagated to the original version of the content and to additional panes of the web page linked to the original content by additional tags.

29-30. (Canceled)

REASONS FOR ALLOWANCE

2. Claims 1, 9, 13, 17, 21 and 28 are allowed.
3. The prior art of record fails to disclose or suggest features in the Proposed Amendment.
4. The following is an examiner's statement of reasons for allowance: The references of Donohue, Heidingsfeld, Esposito, Lynch and Klevenz individually or in combination fail to teach the use of markup indicator tags associated with element behaviors including a context object for coordinating the behaviors, wherein the tags are coordinated such that changes to content are propagated throughout the content resources and linked panes of the web page. Behaviors were a technology used in Internet explorer 5 for separating script from HTML. Element Behaviors was introduced in Internet Explorer 5.5, Behavior represents a software module where as element behaviors represent a specific element such as a custom HTML tag. Further the element behavior is irrevocably associated with a specific tag upon loading. The name of the tag is hard coded in the behavior's source. An element behavior is functionally equivalent to the browser's internal code that handles default HTML tags such as . You can't replace the handler for and you can't replace the handler for any custom tag with an element behavior either. Further the invention uses the element behavior to display editing controls within the page for dynamically updating remote content. Also the invention uses a system of mark-up tags (Element Behaviors) instead of using separate documents including multiple web documents, a style sheet, or web page template, as recited in the claims. The conventional method does not provide a web designer working on the web page document an integrated means for editing XML data that resides in a database remote from the web page document and does not provide for

persisting changes in the XML data back to the remote database, without using style sheets that seriously lower performance.

The Pettersen (U.S. 6,826,594) reference describes updating of remote content but the updating is done with code embedded within the web page such as JavaScript shown in fig 2 whereas this invention uses the element behavior technology to avoid including scripting language in the page by creating **custom tags** that reference the scripting located externally. Although Pettersen describes in column 8, lines 5-30 using a call string "script src=" command for referencing script code from the content serving web site it does not include a custom element that acts has a regular HTML tag. Further using the JavaScript call string allows the user of the component to know a lot about how the component works thereby increasing the leakage of the scripting code. This invention allows the user to create a library of reusable behaviors for use in web pages. The designers can then apply the element behaviors to the page using the custom tags and avoid forcing the user into learning the script. The specification on page 16, paragraph 1 states, "The ability to perform element behaviors is provided in some browsers, such as version Iexplorer, to define custom elements, such as the CTS tags 116, usable in the same way as everyday HTML elements in a web page 114. Element behaviors can be written in script using HTML component (HTC) file or implemented with a DHTML behavior". Therefore the edit tag or preview tag described in the claims are custom tags defined by the user in a HTC file that are used in a web page document just like regular HTML tags. One experienced programmer could define the scripting in an HTC file and include a custom tag to use it. Whereas the less skilled programmer can just use the tag without knowing anything about scripting languages. This separates scripting from content in the page. The fact that the user can create custom tags using element behavior technology renders the claimed invention different from Pettersen. Further although Pettersen describes the use of an editor it is not generated using the element behavior technology by executing a custom edit tag as claimed. Additionally Pettersen doesn't mention or suggest anything about a preview tag for the dynamic updates. The preview tag is also a custom tag associated with an element behavior. Even with combination to the Esposito reference no motivation or suggestion exists in either of the references. Although both Pettersen and this invention are updating remote content they are using different technology, clearly the element behaviors has several significant advantages has explained above.

Furthermore, the claimed feature would not have been obvious to a person of ordinary skill in the art at the time of the invention in view of the prior art of record. Because neither Donohue, Heidingsfeld, Esposito, Lynch Klevenz and Pettersen teach the features recited in the independent claims has described above. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid

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processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled
Comments on "Statements of Reasons for Allowance".

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manglesh M. Patel whose telephone number is (571) 272-5937. The examiner can normally be reached on M, W 6 am-3 pm T, TH 6 am-2pm, Fr 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manglesh M. Patel
Patent Examiner
September 15, 2006



STEPHEN HONG
SUPERVISOR, PATENT EXAMINER